

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P636572

Luminaire Tested: **IFLD-S-SA3E-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13596.8 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

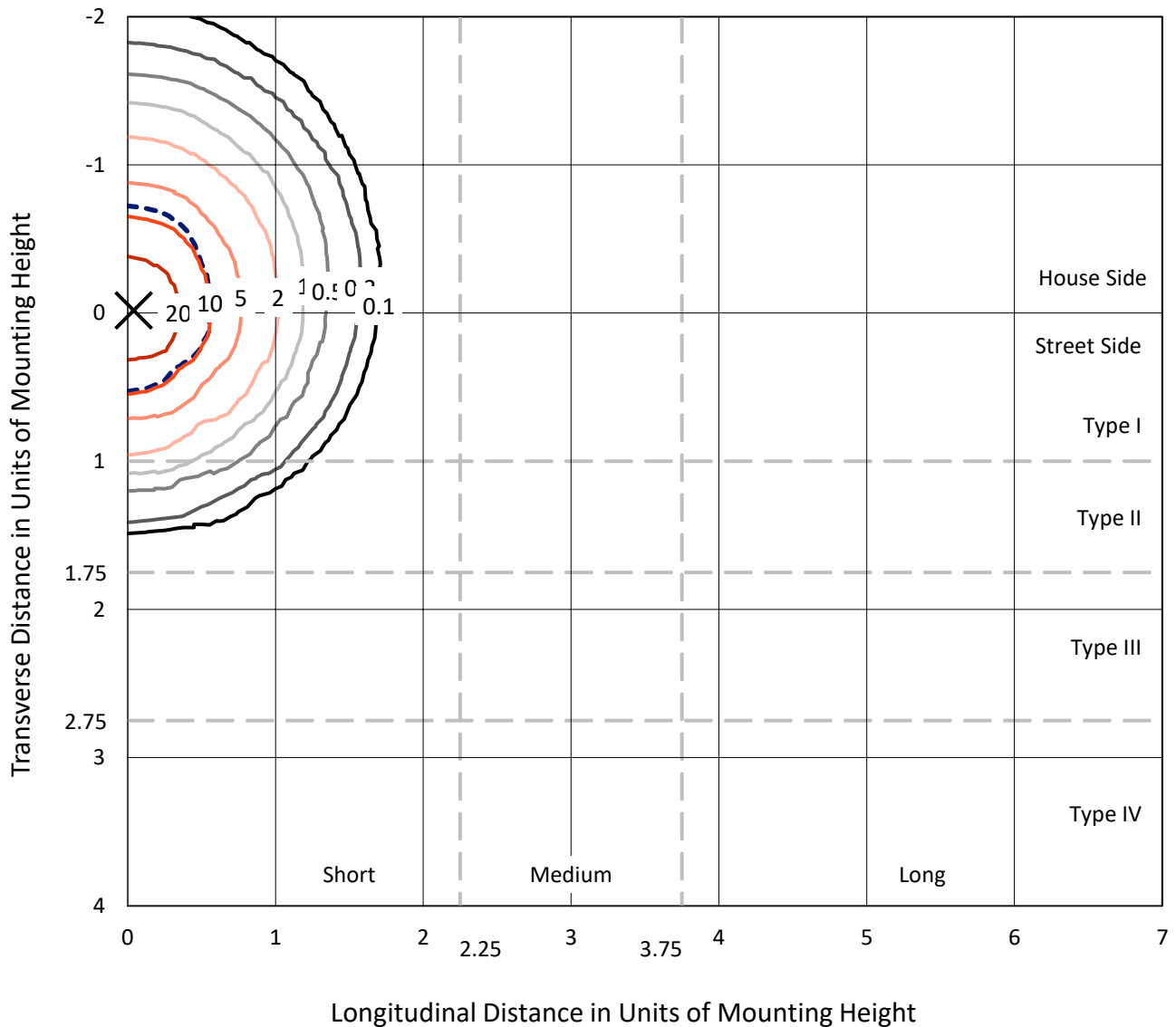
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

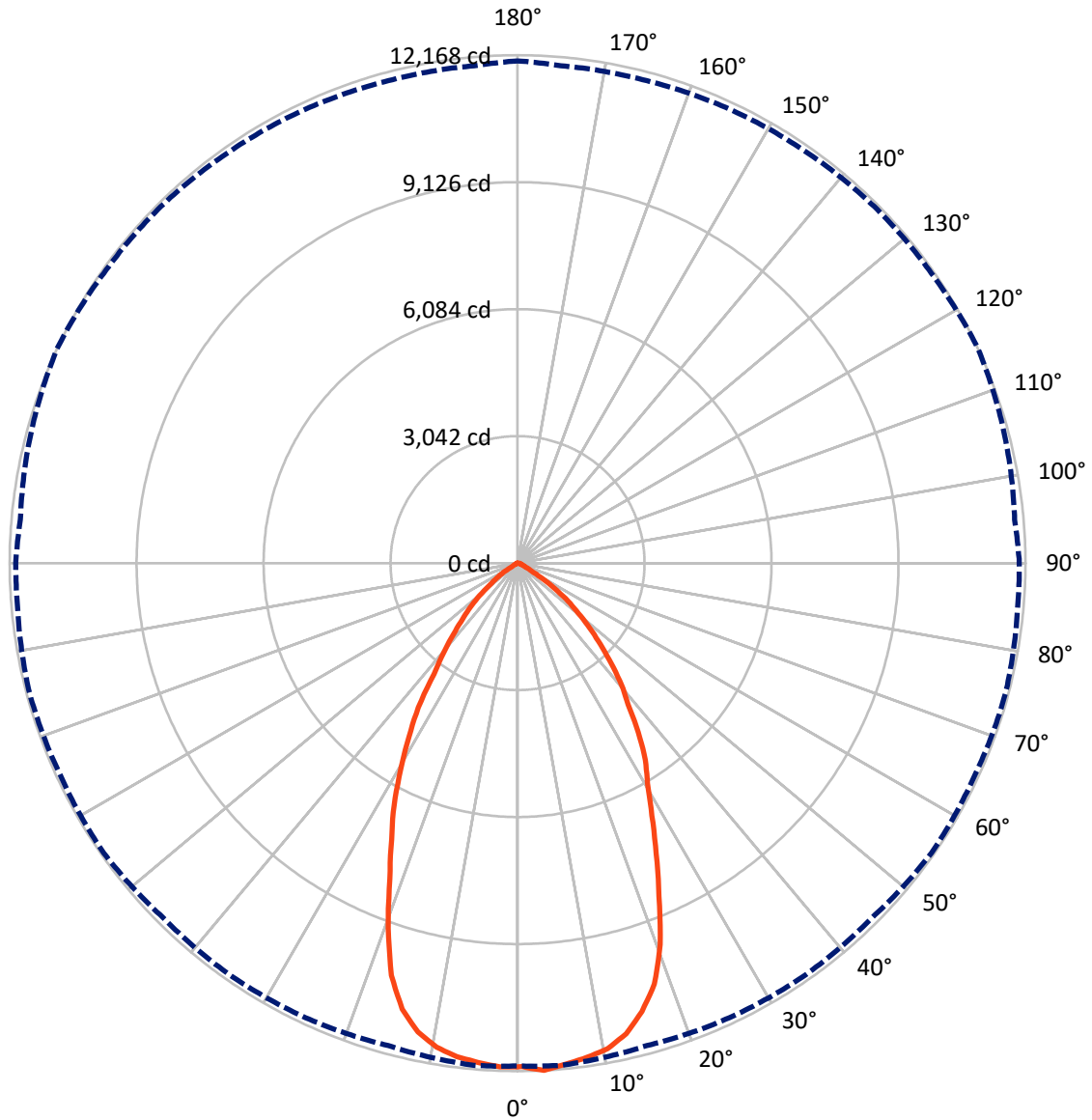
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7781.2	0.0	7781.2
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	5815.5	0.0	5815.5
	% Fixture	42.8	0.0	42.8
Total	Lumens	13596.8	0.0	13596.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1136.3	8.4
10°-20°	3012.8	22.2
20°-30°	3446.0	25.3
30°-40°	2953.1	21.7
40°-50°	1952.7	14.4
50°-60°	852.1	6.3
60°-70°	167.4	1.2
70°-80°	60.4	0.4
80°-90°	16.1	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13596.8	100.0
0°-180°	13596.8	100.0



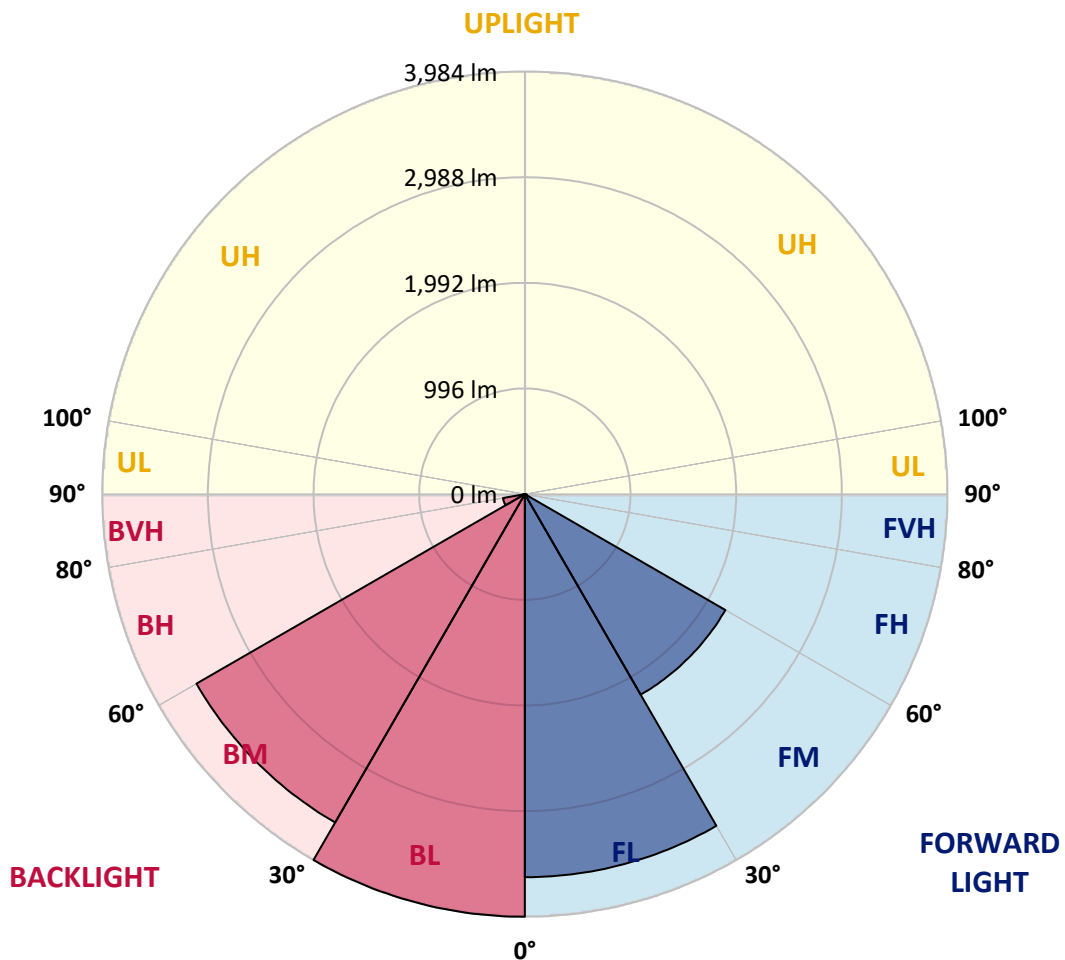
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3611.0	26.6			
FM (30°-60°)	2183.3	16.1			
FH (60°-80°)	18.5	0.1			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	3984.0	29.3	B4/5000		
BM (30°-60°)	3574.5	26.3	B3/5000		
BH (60°-80°)	209.3	1.5	B1/500		G1/500
BVH (80°-90°)	13.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12063.7	12063.7	12063.7	12063.7	12063.7	12063.7	12063.7	12063.7	12063.7	12063.7
2.5°	12046.4	12075.3	11965.5	12014.6	12034.8	12008.8	12104.2	12075.3	12098.4	12026.2
5°	12046.4	12075.3	11948.1	11971.2	11977.0	11927.9	12031.9	11997.3	12000.2	11925.0
7.5°	11971.2	12005.9	11890.3	11907.7	11910.6	11870.1	11959.7	11910.6	11893.2	11815.2
10°	11768.9	11789.2	11685.1	11728.5	11768.9	11731.4	11809.4	11754.5	11754.5	11685.1
12.5°	11448.1	11485.7	11370.1	11422.1	11456.8	11413.4	11503.0	11482.8	11485.7	11416.3
15°	10864.3	10734.2	10873.0	10977.0	10979.9	10971.2	11055.1	11034.8	11049.3	10945.2
17.5°	8026.1	7994.3	8156.2	9384.5	10297.8	10422.1	10436.5	10326.7	10277.6	10176.4
20°	7436.5	7459.6	7424.9	7430.7	8150.4	9644.6	9555.0	9283.4	9159.1	9057.9
22.5°	7005.9	6968.3	6945.2	6930.7	6951.0	7925.0	8569.5	8159.1	8092.6	8043.5
25°	6537.7	6520.3	6491.4	6485.6	6474.1	6309.3	7237.1	7274.7	7167.7	7107.0
27.5°	6101.2	6089.7	6057.9	6055.0	5922.0	5523.2	5624.3	6517.4	6488.5	6465.4
30°	5635.9	5612.8	5595.4	5595.4	5193.7	4783.3	4618.6	5682.2	5682.2	5661.9
32.5°	5130.1	5109.9	5115.7	5046.3	4566.5	4190.8	3930.7	4904.7	5208.2	5190.8
35°	3135.9	3130.1	3716.8	4488.5	3924.9	3583.9	3566.5	4196.6	4638.8	4685.0
37.5°	2791.9	2774.6	2783.3	2832.4	3361.3	3225.5	3219.7	3326.6	3948.0	3971.1
40°	2505.8	2494.3	2485.6	2309.3	2141.6	2878.6	2858.4	2789.1	3372.9	3413.3
42.5°	2234.1	2222.6	2222.6	1974.0	1702.3	2367.1	2375.8	2294.8	2844.0	2858.4
45°	1953.8	1945.1	1896.0	1575.2	1497.1	1572.3	1968.2	1875.7	2257.3	2407.5
47.5°	922.0	916.2	1326.6	1309.3	1303.5	1257.2	1502.9	1554.9	1791.9	1942.2
50°	739.9	734.1	699.4	615.6	1072.3	953.8	1083.8	1196.5	1271.7	1410.4
52.5°	612.7	606.9	534.7	474.0	595.4	696.5	647.4	800.6	797.7	948.0
55°	401.7	372.8	410.4	387.3	312.1	505.8	494.2	606.9	592.5	722.6
57.5°	8.7	8.7	20.2	219.7	196.5	213.9	283.2	346.8	390.2	427.8
60°	2.9	2.9	5.8	11.6	80.9	89.6	109.8	127.2	179.2	222.5
62.5°	0.0	0.0	2.9	5.8	11.6	46.2	52.0	60.7	83.8	115.6
65°	0.0	0.0	0.0	2.9	5.8	11.6	17.3	37.6	52.0	66.5
67.5°	0.0	0.0	0.0	2.9	2.9	5.8	11.6	17.3	23.1	46.2
70°	0.0	0.0	0.0	2.9	2.9	5.8	8.7	11.6	17.3	23.1
72.5°	0.0	0.0	0.0	2.9	2.9	8.7	5.8	8.7	11.6	14.5
75°	0.0	0.0	0.0	2.9	2.9	2.9	5.8	8.7	8.7	11.6
77.5°	0.0	0.0	0.0	2.9	5.8	5.8	5.8	5.8	5.8	8.7
80°	0.0	0.0	0.0	2.9	2.9	5.8	8.7	11.6	5.8	5.8
82.5°	0.0	0.0	0.0	5.8	2.9	11.6	17.3	14.5	5.8	2.9
85°	0.0	0.0	0.0	2.9	11.6	14.5	14.5	8.7	2.9	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	8.7	8.7	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
12063.7	0°	12063.7	12063.7	12063.7	12063.7	12063.7	12063.7	12063.7	12063.7	12063.7
12020.4	2.5°	11953.9	12066.6	12167.8	12104.2	12081.1	12034.8	12000.2	11962.6	11959.7
11916.3	5°	11849.9	11956.8	12055.1	11979.9	11985.7	11962.6	11939.5	11930.8	11936.6
11809.4	7.5°	11760.3	11849.9	11956.8	11893.2	11910.6	11896.1	11884.5	11867.2	11893.2
11670.7	10°	11624.4	11705.4	11829.6	11768.9	11760.3	11745.8	11734.3	11702.5	11716.9
11419.2	12.5°	11326.7	11427.9	11569.5	11500.1	11523.3	11482.8	11465.5	11445.2	11448.1
10982.8	15°	10922.1	11000.1	11144.6	11089.7	11107.1	11081.1	11081.1	11081.1	11101.3
10190.9	17.5°	10216.9	10375.9	10604.2	10534.8	10560.8	10566.6	10560.8	10581.1	10607.1
9063.7	20°	9069.5	9341.2	9757.3	9893.2	9948.1	9951.0	9910.5	9959.7	10011.7
8008.8	22.5°	8014.6	8300.7	8667.7	9040.6	9271.8	9260.2	9266.0	9297.8	9352.7
7069.5	25°	7101.2	7375.8	7708.2	8040.6	8546.4	8650.4	8653.3	8682.2	8725.5
6427.8	27.5°	6442.3	6549.2	6852.7	7188.0	7731.3	8063.7	8046.3	8072.4	8118.6
5624.3	30°	5647.5	6057.9	6127.2	6332.4	6800.7	7410.5	7413.4	7442.3	7488.5
5150.4	32.5°	5135.9	5407.6	5621.5	5627.2	6026.1	6653.3	6777.5	6806.4	6838.2
4659.0	35°	4656.1	4687.9	4976.9	5057.9	5289.1	5910.5	6130.1	6147.5	6199.5
3962.5	37.5°	4029.0	4216.8	4297.7	4586.8	4598.3	5101.2	5537.6	5520.3	5560.8
3410.4	40°	3453.8	3633.0	3838.2	4049.2	4078.1	4453.8	4936.5	4953.8	4971.2
2829.5	42.5°	2852.6	3081.0	3291.9	3433.6	3630.1	3846.9	4306.4	4387.3	4427.8
2424.9	45°	2468.2	2531.8	2783.3	2991.4	3190.8	3291.9	3722.6	3870.0	3896.0
1919.1	47.5°	1945.1	2159.0	2329.5	2505.8	2754.4	2844.0	3156.1	3361.3	3381.5
1424.9	50°	1502.9	1656.1	1890.2	2049.2	2338.2	2387.3	2601.2	2867.1	2893.1
953.8	52.5°	1075.2	1283.3	1511.6	1664.8	1942.2	2005.8	2164.8	2419.1	2436.4
731.2	55°	771.7	907.5	1095.4	1315.0	1517.4	1659.0	1768.8	2011.6	2034.7
479.8	57.5°	526.0	653.2	731.2	950.9	1072.3	1225.4	1315.0	1500.0	1517.4
228.3	60°	251.4	312.1	372.8	482.7	560.7	690.8	748.6	823.7	843.9
138.7	62.5°	161.9	190.8	242.8	289.0	364.2	445.1	468.2	531.8	554.9
86.7	65°	106.9	135.8	190.8	202.3	277.5	341.0	369.9	416.2	442.2
52.0	67.5°	60.7	95.4	141.6	167.6	219.7	280.4	312.1	352.6	375.7
34.7	70°	40.5	78.0	112.7	138.7	173.4	225.4	265.9	300.6	315.0
17.3	72.5°	23.1	49.1	78.0	109.8	138.7	187.9	225.4	254.3	167.6
11.6	75°	14.5	37.6	66.5	92.5	115.6	150.3	182.1	179.2	75.1
8.7	77.5°	11.6	28.9	57.8	78.0	95.4	104.0	130.1	147.4	57.8
5.8	80°	8.7	23.1	52.0	66.5	37.6	75.1	101.2	109.8	40.5
5.8	82.5°	5.8	14.5	43.4	46.2	26.0	54.9	80.9	72.3	28.9
2.9	85°	2.9	8.7	14.5	26.0	23.1	26.0	20.2	28.9	20.2
2.9	87.5°	2.9	5.8	11.6	11.6	11.6	8.7	11.6	11.6	11.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12063.7
<i>12029.1</i>
12008.8
11965.5
11786.3
11531.9
11110.0
10693.8
10046.4
9361.4
8800.7
8162.0
7569.5
6910.5
6254.4
5609.9
5026.1
4485.6
3959.6
3430.7
2930.7
2468.2
2054.9
1552.0
867.1
560.7
442.2
372.8
312.1
135.8
75.1
57.8
43.4
28.9
20.2
11.6
0.0

(END OF REPORT)